





Water-level package 1A

WFL - In the manufacture of semiconductor devices.

ADVANTAGE - Improves the manufacturing efficiency, reduces manufacturing cost, enables the manufacture of testable devices implemented in a single water.

DESCRIPTION OF DRAWING - The drawing shows a diagram of the invention.

Water-level package 1A

Semiconductor water 11

Chip forming region 12

Test chip terminal 1A

Non-test chip terminal 1B

External connection terminal 14

Redistribution trace 15

Test terminal 16

ABSTRACT-IMP-N : 10-000-0048

EQUIVALENT-ABSTRACT:

INVENTY - A water-level package 1A includes a semiconductor water 11 with at least one chip forming region 12 each including a semiconductor chip circuit with test and non-test chip terminals 1A, 1B, at least one external connection terminal 14, a redistribution trace 15, test terminal 16 and insulation material. One end of the trace is connected to test chip terminal and the other end of the test terminals in the chip forming region.

DETAILED DESCRIPTION - An independent claim is included in:

1. *Journal of the American Medical Association*, 1997; 278: 1039-1044.

[illegible]

1. *What is the purpose of the study?*  
 2. *What are the research questions or hypotheses?*  
 3. *What is the study design?*  
 4. *What is the sample size and how was it selected?*  
 5. *What are the variables being measured?*  
 6. *What are the results of the study?*  
 7. *What are the conclusions of the study?*  
 8. *What are the limitations of the study?*  
 9. *What are the implications of the study?*  
 10. *What are the strengths of the study?*

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

[illegible]
$$\frac{\partial}{\partial t} \left( \frac{1}{\rho} \frac{\partial \rho}{\partial t} \right) = \frac{1}{\rho} \frac{\partial^2 \rho}{\partial t^2} - \frac{1}{\rho^2} \left( \frac{\partial \rho}{\partial t} \right)^2$$

the  $\beta$  phase of the polymer. The  $\beta$  phase is the most important phase in the polymer, as it is the phase that is most responsible for the mechanical properties of the polymer. The  $\beta$  phase is the phase that is most responsible for the mechanical properties of the polymer.

### Revisiting the 1940s

Figure 1 is a schematic representation of the experimental design. It shows a sequence of events: a subject is presented with a stimulus (a face), then a response is recorded (a button press), and finally a feedback is provided (a light or sound). The sequence is repeated for multiple trials. The diagram includes labels for 'Stimulus', 'Response', and 'Feedback'.

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The concentration of the *Agrobacterium* suspension was 10<sup>6</sup> cells/ml (○), 10<sup>7</sup> cells/ml (□), 10<sup>8</sup> cells/ml (△), and 10<sup>9</sup> cells/ml (◇). The error bars represent the standard deviation of three independent experiments.

$$f_{\text{max}} = \frac{1}{2\pi} \sqrt{\frac{1}{L C_{\text{eff}}}} = \frac{1}{2\pi} \sqrt{\frac{1}{L (C_1 + C_2)}} = \frac{1}{2\pi} \sqrt{\frac{1}{L C_1 (1 + \frac{C_2}{C_1})}} = \frac{1}{2\pi} \sqrt{\frac{1}{L C_1}} \frac{1}{\sqrt{1 + \frac{C_2}{C_1}}} \quad (1)$$

Table 1. *Phylogenetic relationships among the 12 species of the genus *Phragmites* based on the analysis of the chloroplast *trnK* gene. The tree was rooted with *Phragmites communis* as the outgroup. Bootstrap values are shown at the nodes. The scale bar represents 0.01 substitutions per site.*

$$N_{\alpha}^{+}(\mathbf{r}) = \int_{\mathbf{r}'} d\mathbf{r}' \int_{\mathbf{r}''} d\mathbf{r}'' \int_{\mathbf{r}'''} d\mathbf{r}''' \int_{\mathbf{r}''''} d\mathbf{r}'''' \int_{\mathbf{r}'''''} d\mathbf{r}'''''$$

1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Lichtenthaler and Whistler (1973). The *Chlorophyll a* and *Chlorophyll b* contents were expressed as  $\mu\text{g g}^{-1}$  of dry weight.

$$A_1 \otimes A_2 \otimes A_3 \otimes A_4 \otimes A_5 \otimes A_6 \otimes A_7 \otimes A_8 \otimes A_9 \otimes A_{10} \otimes A_{11} \otimes A_{12} \otimes A_{13} \otimes A_{14} \otimes A_{15} \otimes A_{16} \otimes A_{17} \otimes A_{18} \otimes A_{19} \otimes A_{20} \otimes A_{21} \otimes A_{22} \otimes A_{23} \otimes A_{24} \otimes A_{25} \otimes A_{26} \otimes A_{27} \otimes A_{28} \otimes A_{29} \otimes A_{30} \otimes A_{31} \otimes A_{32} \otimes A_{33} \otimes A_{34} \otimes A_{35} \otimes A_{36} \otimes A_{37} \otimes A_{38} \otimes A_{39} \otimes A_{40} \otimes A_{41} \otimes A_{42} \otimes A_{43} \otimes A_{44} \otimes A_{45} \otimes A_{46} \otimes A_{47} \otimes A_{48} \otimes A_{49} \otimes A_{50} \otimes A_{51} \otimes A_{52} \otimes A_{53} \otimes A_{54} \otimes A_{55} \otimes A_{56} \otimes A_{57} \otimes A_{58} \otimes A_{59} \otimes A_{60} \otimes A_{61} \otimes A_{62} \otimes A_{63} \otimes A_{64} \otimes A_{65} \otimes A_{66} \otimes A_{67} \otimes A_{68} \otimes A_{69} \otimes A_{70} \otimes A_{71} \otimes A_{72} \otimes A_{73} \otimes A_{74} \otimes A_{75} \otimes A_{76} \otimes A_{77} \otimes A_{78} \otimes A_{79} \otimes A_{80} \otimes A_{81} \otimes A_{82} \otimes A_{83} \otimes A_{84} \otimes A_{85} \otimes A_{86} \otimes A_{87} \otimes A_{88} \otimes A_{89} \otimes A_{90} \otimes A_{91} \otimes A_{92} \otimes A_{93} \otimes A_{94} \otimes A_{95} \otimes A_{96} \otimes A_{97} \otimes A_{98} \otimes A_{99} \otimes A_{100}$$

Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group (C) and the experimental group (E). The control group (C) was divided into two subgroups: the control group (C) and the control group (C). The experimental group (E) was divided into two subgroups: the experimental group (E) and the experimental group (E). The control group (C) was divided into two subgroups: the control group (C) and the control group (C). The experimental group (E) was divided into two subgroups: the experimental group (E) and the experimental group (E).

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were grown in the YEA medium for 24 h at 28°C. The cell concentration of the strains was adjusted to 1.0 × 10<sup>8</sup> cells/ml. The cell suspension was mixed with the plant tissue and the transformation efficiency was determined. The results were expressed as the mean ± SD of three independent experiments. The asterisks indicate the significant difference between the strains at the same concentration of the cell suspension.

[illegible][illegible]

Case	Age	Sex	Duration of disease	Site of lesion	Pathological findings	Response to treatment
1	45	M	10 years	Right parietal lobe	Large, well-circumscribed, solid, enhancing mass	Complete remission
2	55	F	5 years	Left frontal lobe	Large, well-circumscribed, solid, enhancing mass	Complete remission
3	65	M	3 years	Right frontal lobe	Large, well-circumscribed, solid, enhancing mass	Complete remission
4	75	F	2 years	Left parietal lobe	Large, well-circumscribed, solid, enhancing mass	Complete remission
5	85	M	1 year	Right parietal lobe	Large, well-circumscribed, solid, enhancing mass	Complete remission

Figure 1. Schematic representation of the experimental design. The subjects were divided into two groups: the control group (CG) and the experimental group (EG). The CG was divided into two subgroups: the control group (CG) and the control group (CG). The EG was divided into two subgroups: the experimental group (EG) and the experimental group (EG). The CG was divided into two subgroups: the control group (CG) and the control group (CG). The EG was divided into two subgroups: the experimental group (EG) and the experimental group (EG).

1. The first step is to identify the problem. In this case, the problem is that the company is not meeting its sales targets.

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were grown in the YEA medium for 24 h at 28 °C. The cell concentration of the strains was adjusted to 10<sup>8</sup> cells/ml. The cell suspension was mixed with the plant tissue and the transformation efficiency was determined. The results were expressed as the mean ± SD of three independent experiments. The asterisk indicates a significant difference between the control and the treatment groups ( $P < 0.05$ ).

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains. The *Agrobacterium* strains were grown in YEA medium for 24 h at 28 °C. The cell concentration was adjusted to 10<sup>8</sup> cells/ml. The cells were then mixed with the plant tissue and incubated for 24 h at 28 °C. The plant tissue was then cultured on the selective medium. The transformation efficiency was determined as the number of transformants per 100 µg of plant tissue. The data are the mean ± SD of three independent experiments.



### ***Double Patenting***

3 In claim 1 of the instant application the word "semiconductor" on line 2 is added to the claim. However, the IC die (i.e. integrated circuit die) of U.S. Patent 6,316,824 is a semiconductor die. In claim 1 of the instant application the phrase "at least one bond pad thereon" on line 2 was replaced with "a plurality of bond pads thereon" in U.S. Patent No. 6,316,824. However, at least one bond pad is present in a plurality of bond pads. In claim 1, of the instant application the phrase **for attachment in one of a conventional die attach to lead frame connect process and a LOC connect process is** added to the claim. However, a connector (i.e. bonding wire) is an attachment means for a conventional die to a lead frame. In claim 3, of the instant application the word "semiconductor" on line 2 is added to the claim. However, the IC die (i.e. integrated circuit die) of U.S. Patent 6,316,824 is a semiconductor die. In claim 3 of the instant application the phrase "at least one bond pad thereon" on line 2 was replaced with "a plurality of bond pads thereon" in U.S. Patent No. 6,316,824. However, at least one bond pad is present in a plurality of bond pads. In claim 3, of the instant application the phrase **for attachment in one of a conventional die attach to lead frame connect process and a LOC connect process is** added to the claim. However, a connector (i.e. bonding wire) is an attachment means for a conventional die to a lead frame. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101, which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

4 Claims 1 and 3 are rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 1 and 3 of prior U.S. Patent No. 6,316,824. This is a double patenting rejection.

### ***Double Patenting***

4. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101, which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

5. Claims 1-20 are rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 1 and 18 of prior U.S. Patent No. 6,507,109. This is a double patenting rejection.